## Claims

[c1] 1. A method of making high strength paper or paperboard comprising the steps of:

adding a high modulus filler to an aqueous pulp slurry to form a modified pulp slurry; and forming the modified pulp slurry into paper or paperboard.

- [c2] 2. The method of claim 1 wherein the filler has a modulus of at least 0.1 GPa.
- [c3] 3. The method of claim 1 wherein the filler has a modulus of at least 3GPa.
- [c4] 4. The method of claim 2 wherein the filler is selected from the group consisting of polymers, glass fibers, clay nanoplatelets, carbon fibers, silicon carbide fibers and alumina fibers.
- [c5] 5. The method of claim 2 wherein the filler has an aspect ratio of at least50.
- [c6] 6. The method of claim 1 wherein a thermosetting resin is also added to the aqueous pulp slurry prior to the forming step.
- [c7] 7. The method of claim 6 wherein the resin has a glass transition temperature higher than the service temperature.
- [c8] 8. The method of claim 6 wherein the resin has a glass transition temperature of at least 85C.
- [c9] 9. The method of claim 6 wherein the resin is selected from the group consisting of melamine, PAE, phenolic resins, phenol-formaldehyde, and anionic and cationic polymers.

[c10]	10. A paperboard made according to the method of claim 2.
[c11]	11. A paperboard made according to the method of claim 3.
[c12]	12. A paperboard made according to the method of claim 7.
[c13]	13. A paperboard made according to the method of claim 8.
[c14]	14. A method of making high strength paper or paperboard comprising the steps of:
	coating a filler with a resin matrix;
	adding the coated filler to an aqueous pulp slurry to form a modified
	pulp slurry; and
	forming the modified pulp slurry into paper or paperboard.
[c15]	15. The method of claim 14 wherein the filler has a modulus of at least 0.1 GPa.
[c16]	16. The method of claim 14 wherein the filler has a modulus of at least 3 GPa.
[c17]	17. The method of claim 16 wherein the filler is glass fiber.
[c18]	18. The method of claim 14 wherein the resin is hydrophilic.
[c19]	19. A paper or paperboard made according to the method of claim 14.